CLAIMS

- 1. A silicon carbide product having a surface with a concentration of metal impurities equal to or less than 1×10¹¹ (atoms/cm²).
- 5 2. The silicon carbide product according to claim 1, wherein said metal impurities are at least one of iron or an iron compound, Ni, and Cu.
 - 3. The silicon carbide product according to claim 1 or 2, whereincharacterized in that said product is at least one of a semiconductor device, a semiconductor device manufacturing member, and a structure.
- 4. A silicon carbide product cleaning method comprising the step of immersing silicon carbide in an acid to reduce surface metal impurities to 1×10¹¹ (atoms/cm²) or less.
 - 5. A method of manufacturing a silicon carbide product comprising the step of cleaning silicon carbide with an acid to reduce surface metal impurities to 1×10^{11} (atoms/cm²) or less.
 - 6. The method according to claim 5, wherein said acid is hydrofluoric acid or hydrochloric acid.
 - 7. The method according to claim 6, wherein said hydrofluoric acid has a concentration exceeding 45%.
- 20 8. The method according to claim 7, wherein said hydrofluoric acid has a concentration of about 50%.

15

- 9. The method according to claim 6, wherein said hydrochloric acid has a concentration of 35% or more.
- 10. The method according to claim 8, wherein said hydrochloric acid has a concentration of about 36%.
 - 11. The method according to claim 5, wherein said acid is a liquid containing sulfuric acid and a hydrogen peroxide solution.

- 12. The method according to claim 11, wherein said liquid containing said sulfuric acid and said hydrogen peroxide solution has a pH of 4 or less.
- 13. The method according to claim 12, wherein said sulfuric acid and said hydrogen peroxide solution respectively have concentrations of about 97% and about 30% and are mixed in a volume ratio of about 4:1.

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14. A silicon carbide product manufactured by the method according to claim 5, said silicon carbide product being a semiconductor device, a semiconductor device manufacturing member, or a structure.

AMENDMENT OF CLAIMS

[Received by International Bureau on November 30, 2004 (30. 11. 04): Original claims 7, 9, and 10 are amended; Other claims are kept unchanged.]

- 5 1. A silicon carbide product having a surface with a concentration of metal impurities equal to or less than 1×10¹¹ (atoms/cm²).
 - 2. The silicon carbide product according to claim 1, wherein said metal impurities are at least one of iron or an iron compound, Ni, and Cu.
- The silicon carbide product according to claim 1 or 2,
 whereincharacterized in that said product is at least one of a semiconductor device, a semiconductor device manufacturing member, and a structure.
 - 4. A silicon carbide product cleaning method comprising the step of immersing silicon carbide in an acid to reduce surface metal impurities to 1×10^{11} (atoms/cm²) or less.
- 5. A method of manufacturing a silicon carbide product comprising the step of cleaning silicon carbide with an acid to reduce surface metal impurities to 1×10¹¹ (atoms/cm²) or less.
 - 6. The method according to claim 5, wherein said acid is hydrofluoric acid or hydrochloric acid.
- 7. (Amended) The method according to claim 6, wherein said acid is the hydrofluoric acid and said hydrofluoric acid has a concentration exceeding 45%.
 - 8. The method according to claim 7, wherein said hydrofluoric acid has a concentration of about 50%.
- 9. (Amended) The method product according to claim 6, wherein said acid is the hydrochloric acid and said hydrochloric acid has a concentration of 35% or more.

- 10. (Amended) The method according to claim 9, wherein that said hydrochloric acid has a concentration of about 36%.
- 11. The method according to claim 5, wherein said acid is a liquid containing sulfuric acid and a hydrogen peroxide solution.
- 12. The method according to claim 11, wherein said liquid containing said sulfuric acid and said hydrogen peroxide solution has a pH of 4 or less.
- 13. The method according to claim 12, wherein said sulfuric acid and said hydrogen peroxide solution respectively have concentrations of about 97% and about 30% and are mixed in a volume ratio of about 4:1.
- 14. A silicon carbide product manufactured by the method according to claim 5, said silicon carbide product being a semiconductor device, a semiconductor device manufacturing member, or a structure.

10

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